



BAV316WS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75 Volts **POWER** 350mWatts

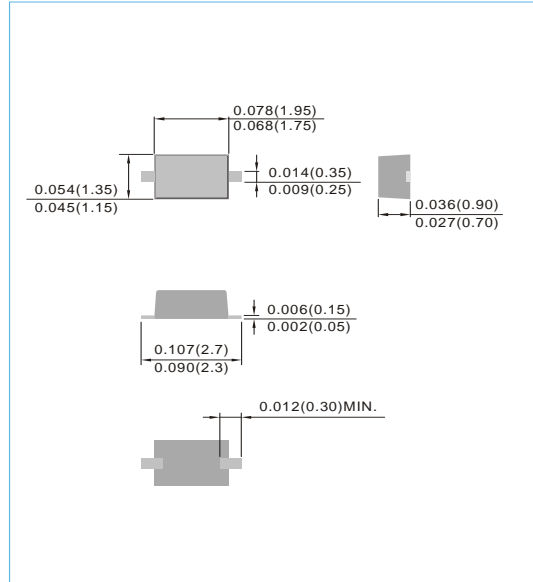
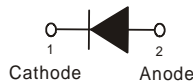
SOD-323 Unit : inch(mm)

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.00014 ounces, 0.0041 grams
- Polarity: Color band denotes cathode end
- Marking: PS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RRM}	75	V
Average Forward Current	I _{F(AV)}	250	mA
Non-repetitive Peak Forward Surge Current, at t=1ms	I _{FSM}	1	A
Power Dissipation	P _D	350	mW
Reverse Current at V _R =25V V _R =75V	I _R	0.3 1.0	μA
Forward Voltage at I _F =1mA I _F =10mA I _F =50mA I _F =150mA	V _F	0.715 0.855 1.0 1.3	V
Typical Junction Capacitance at V _R =0V, f=1MHz	C _J	1.5	pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	357	°C / W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES:

1. Mounted on 48cm² FR-4 PCB board.



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RATING AND CHARACTERISTIC CURVES

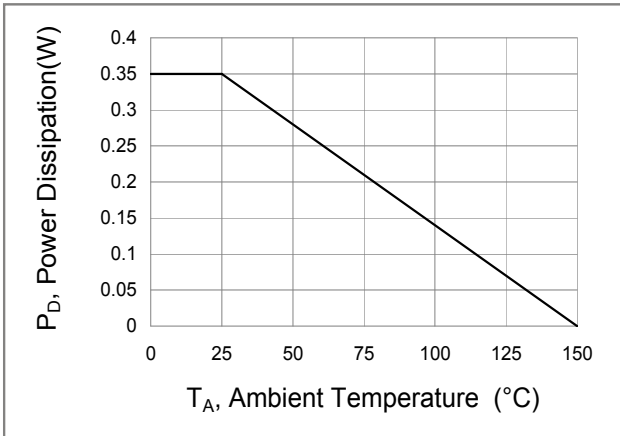


Fig.1 Forward Current Derating Curve

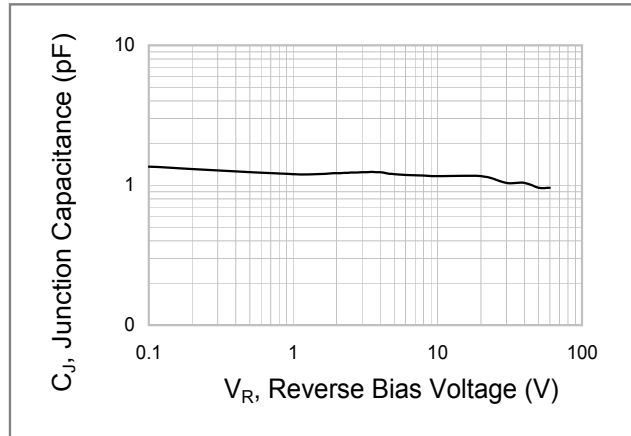


Fig.2 Typical Junction Capacitance

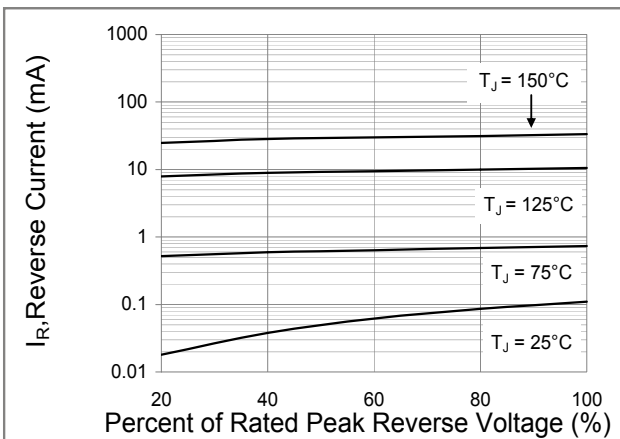


Fig.3 Typical Reverse Characteristics

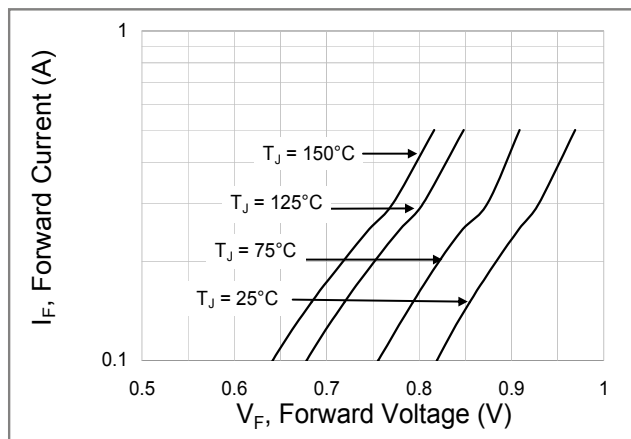


Fig.4 Typical Forward Characteristics

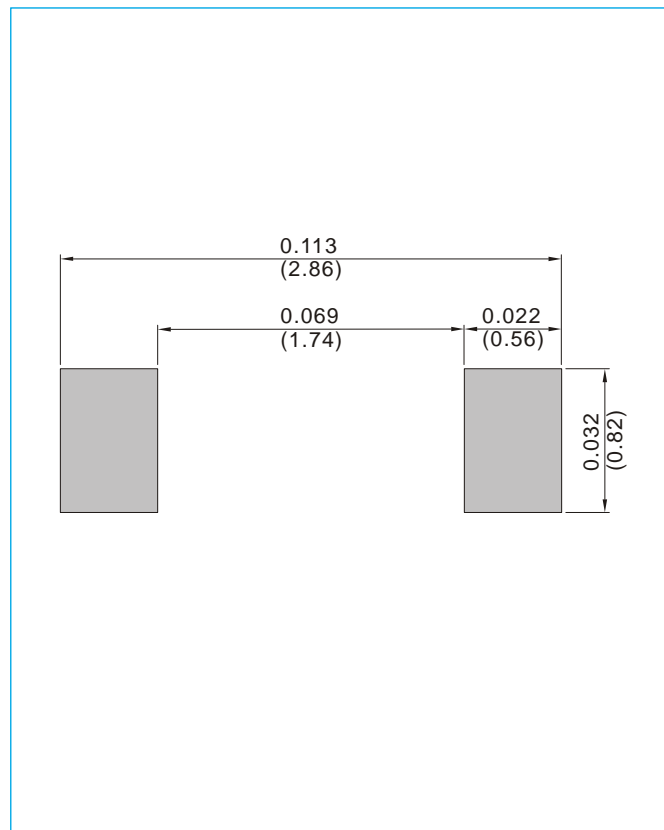


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MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel



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Part No_packing code_Version

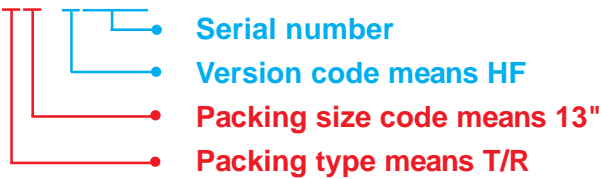
BAV316WS_R1_00001

BAV316WS_R2_00001

For example :

RB500V-40_R2_00001

Part No.



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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